



KONTEC KS-H-LH

**Long stroke vise for
automated machine loading**

Flexible direct loading with the compact hydraulic long stroke vise with integrated path measurement

The topic of machine tending is increasingly becoming a central component of competitive manufacturing. With the new hydraulic long stroke vise KONTEC KS-H-LH, SCHUNK is expanding its product portfolio in this area with an elementary component. With a clamping range from 20 to 345 mm and a hydraulic clamping stroke of 110 mm, workpieces of different sizes can be automatically inserted or exchanged. With a clamping force of 40 kN per jaw, the vise offers plenty of power so that workpieces can be clamped in a reliable process and protected against vibration, even with minimum clamping surfaces. Depending on customer requirements and the application, the long stroke vise can be equipped with or without a path measuring system and pneumatic media transfer into the system jaw.

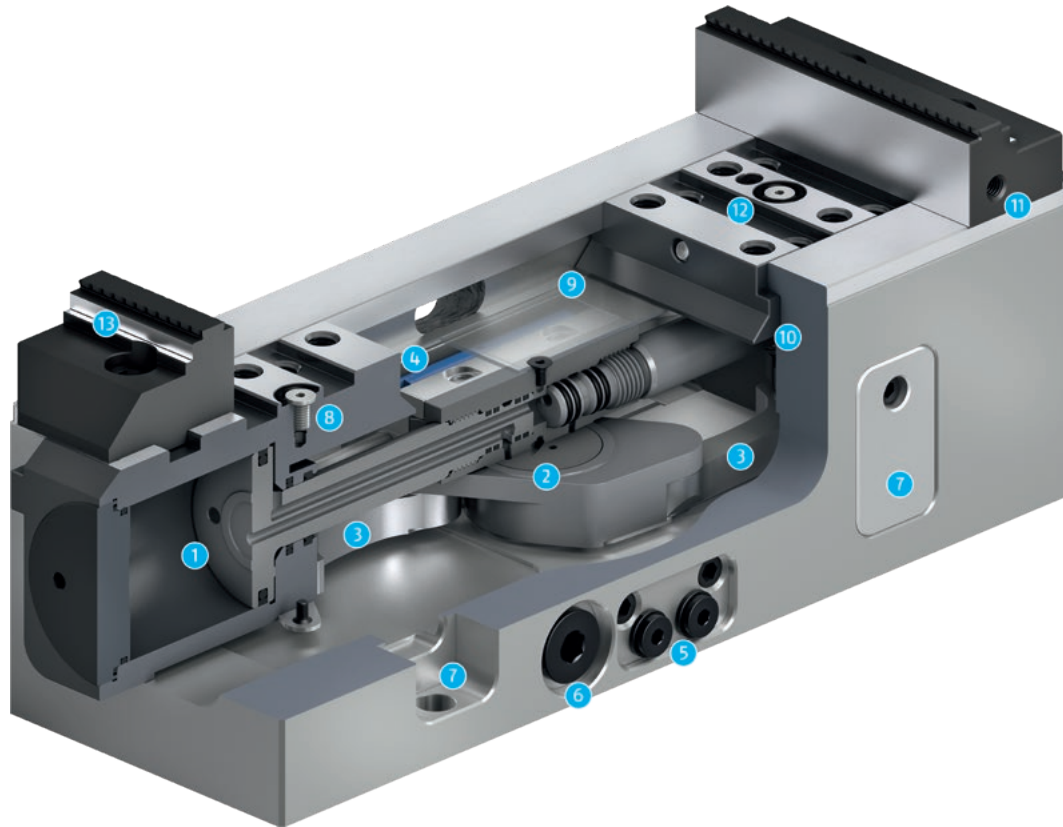


Advantages – Your benefits

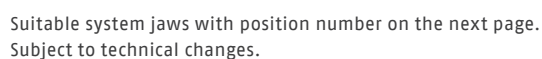
- + Perfectly suitable for automation**
Thanks to hydraulic actuation and integrated path measurement
- + Long hydraulic clamping stroke of 110 mm**
High flexibility with regard to workpiece size
- + Powerhouse with 40 kN clamping force per jaw**
For vibration-proof clamping in a reliable process, even with minimal clamping surfaces
- + Maximum flexibility in the range of system and top jaws**
Thanks to a unique portfolio on the market
- + Wide range of applications**
Suitable for rough and finished parts machining
- + Flexible control of the long stroke vise**
Through side and bottom connections
- + Simple commissioning and quick integration**
In all common fieldbus systems thanks to the IO-Link interface
- + Completely encapsulated**
Offers optimal protection against coolant and chips
- + VERO-S interface**
Versatile range of combinations thanks to the VERO-S modular system for even shorter set-up times.

Function KS-H-LH

SCHUNK KONTEC KS-H-LH are hydraulically actuated centric clamping vises. The drive is provided by two cylinder pistons that are connected to one another via a pivot lever and two connecting rods. When actuated, the pivot lever transmits the one-sided axial movement of the cylinder pistons, which is converted into a synchronous jaw movement of the base jaws. Both jaws open or close synchronously. The clamping force depends on the hydraulic pressure used. If required, the piston travel can be evaluated via a path measuring system and transmitted to the machine control via IO-Link.



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| <ul style="list-style-type: none"> 1 Hydraulic actuating cylinder
Automated actuation for flexible direct loading via robot 2 Pivot lever
Ensures synchronous, centric clamping of the base jaws 3 Connecting rod
Connects the two base jaws to the swivel lever 4 Measuring unit for path measurement
Evaluation of the current jaw position 5 Hydraulic connections
Optionally lateral or from the bottom side 6 Direct integration of double check valves possible
For use in pallet storage systems 7 Completely covered mounting holes
No accumulation of chip nests possible | <ul style="list-style-type: none"> 8 Pneumatic media transfer into the system jaw
For workpiece contact control or cleaning of the clamping surfaces 9 Completely encapsulated
Offers optimal protection against coolant and chips 10 Long jaw guidance
Offers optimal support for O.D.- and I.D. clamping 11 Mounting thread
For workpiece stops 12 KSC3 jaw interface
For access to a portfolio of system and top jaws that is unique on the market 13 Diverse applications
For first- and second-side machining |
|--|--|



- ② Jaw, smooth VS (ID 0430416)
- ③ Same clamping ranges for vertical clamping

Technical data

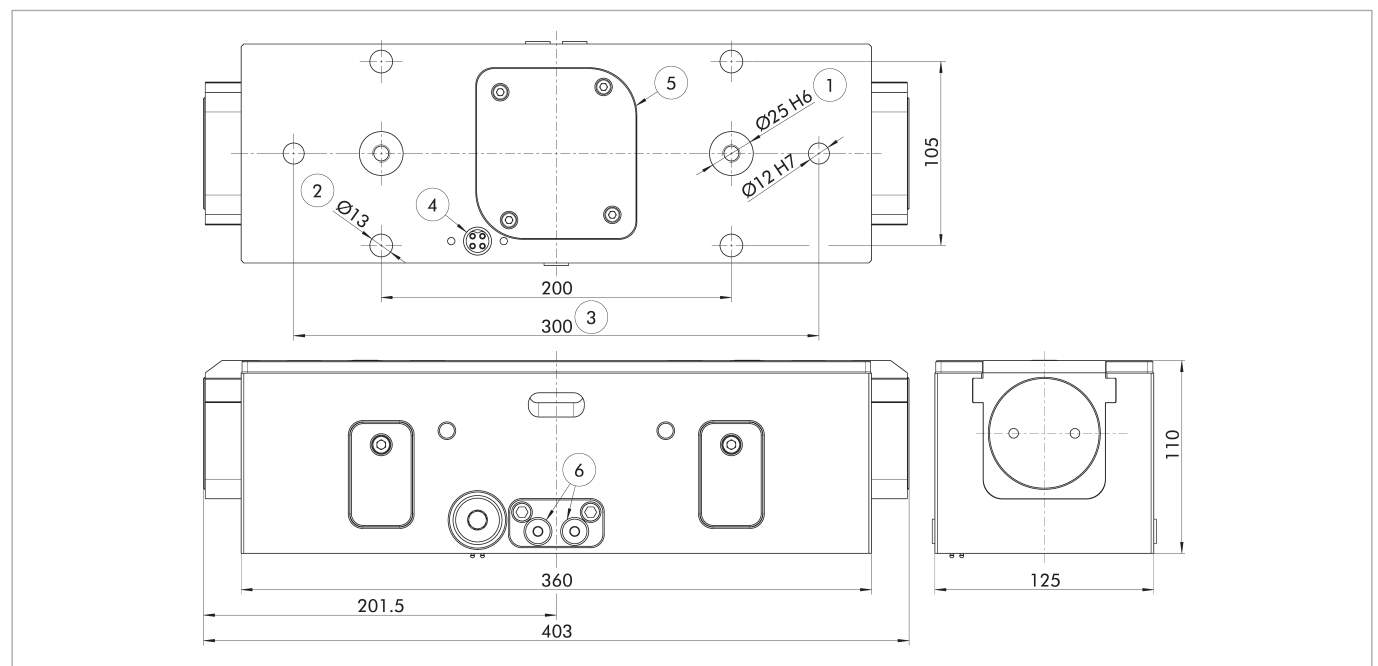
Description	ID	Sensory path measurement	Pneumatic dynamic pressure monitoring	IO-Link interface	Clamping force at 230 bar [kN]	Operating pressure [bar]	Weight [kg]
KS-H-LH 125-360	1601744			None	40	10 - 250	29
KS-H-LH 125-360 IOL	1595866	●	●	Spring contacts	40	10 - 250	29
KS-H-LH 125-360-CI IOL	1601743	●	●	Fixed cable connection	40	10 - 250	29

Scope of delivery

Vise, operating manual; without system jaws, without fixed contact for integration into the machine control

Suitable system jaws

Description	Pos.	Description	ID	Width [mm]	Depth [mm]	Height [mm]	Weight [kg]
Reversible grip jaw	10	SGWB-G3-B 125-57-33	0432474	125	57	33	1.3
Reversible grip jaw	20	SGWB-G3-B 65-57-33	1514380	65	57	33	0.9
Aluminum jaw	30	SGAL-B 125-68-40	0432469	125	68	40	1
Swivel plate	40	SGP-3 180-95-22	0432470	180	95	22	2.8
Adapter plate	50	SGA-3 180-62-22	0432471	180	62	22	1.7
Reversible grip jaw	60	SGWB-G5-B 125-57-33	1514365	125	57	33	1.2
Reversible jaw	70	SGWB-G3-B 125-59-40	0430387	125	59	40	1.7
5-axis jaw	80	SG5A-B 65-57-40	0432473	65	57	40	1
5-axis jaw	90	SG5A-B 125-45.5-40	0432472	125	45.5	40	1.1
Combi jaw	100	SGK-B 125-45.5-40	0432468	125	45.5	40	1.6
6-way jaw system	110	SG6F 125-57-40	0432485	125	57	40	3.9
Prismatic jaw	120	SGVA-B 125-57-67	1395549	125	67	57	3.2
Prism jaw vertical	130	SGVA-B 125-25-57	1468523	125	57	25	1.3



- ① Prepared for NSE3 and GFD clamping pins
- ② Prepared for M12 screws
- ③ Prepared for dowel pin set Ø 12m6
- ④ IO-Link interface via spring contacts
- ⑤ In the case of bottom-sides control, this can be replaced by a connection plate prepared as standard (see accessories)
- ⑥ Side hydraulic connections

System jaws

Reversible soft grip jaw

Design as movable jaw.
With a special 5 mm grip step on both sides to enable clamping of soft materials such as aluminum or plastic.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-SG5-B 125-57-33		1514367

Reversible grip jaw

Design as movable jaw.
With grip step 3 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-G3-B 125-57-33		0432474

Reversible carbide-grip jaw

Design as movable jaw.
With carbide-grip step 3 mm (up to 58 HRC) and smooth clamping face on both sides.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-CG3-B 125-57-33		1514374

Reversible grip jaw

Design as movable jaw.
With grip step 5 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-G5-B 125-57-33		1514365

Reversible carbide-grip jaw

Design as movable jaw.
With carbide-grip step 5 mm (up to 58 HRC) and smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-CG5-B 125-57-33		1514376

Reversible jaw with embossed profile

Design as movable jaw.
With a special grip on both sides for clamping pre-embossed workpieces simply and securely.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-GL-B 125-57-33		1514378

Reversible jaw

Design as movable jaw.
One side with grip step 3 mm (up to 22 HRC), one side height 40 mm with smooth clamping surface and threads for mounting top jaws.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-G3-B 125-59-40	W-125-1	0430387

Reversible grip jaw

Design as movable jaw.
Reduced jaw width.
With grip step 3 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-G3-B 65-57-33		1514380

Reversible carbide-grip jaw

Design as movable jaw.
Jaw width 65 mm, with grip step 3 mm (up to 58 HRC) and a smooth clamping face on both sides.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-CG3-B 65-57-33		1414568

Aluminum jaw

Design as movable jaw.
Used for rework at the customer site e.g. for incorporating contours or special shapes.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGAL-B 125-68-40		0432469

Swivel plate

Used – in combination with adapter plates and 6-way reversal jaws – to clamp bulky workpieces.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGP-3 180-95-22	W-38	0432470

Adapter plate

Used – in combination with swivel plates and 6-way reversal jaws – to clamp bulky workpieces.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGA-3 180-62-22	W-38	0432471

Reversible smooth jaw

Design as movable jaw.
Ground steps, for precise OP20 machining.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGWB-S6-B 125-57-33		1497517

5-axis jaw

Design as movable jaw.
One side with smooth clamping surface and threads for mounting top jaws.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SG5A-B 125-45.5-40	W-125-1	0432472

5-axis jaw

Design as movable jaw.
Jaw width 65 mm, including reversible jaw with grip step 3 mm.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SG5A-B 65-57-40	W-65-1	0432473

Combi jaw

Design as movable jaw.
One side prepared for the mounting of top jaws.
VS-top jaws can also be installed additionally.



Suitable for	Description	Interface	ID
		W-125-1	
KS-H-LH 125-360	SGK-B 125-45.5-40	W-125-3	0432468

6-way jaw system

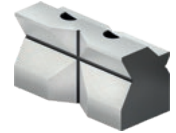
Jaw set for clamping the workpiece from six sides to attain a significantly high clamping force.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SG6F 125-57-40		0432485

Prismatic jaw

Design as movable jaw.
For the horizontal and vertical clamping of round materials.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGVA-B 125-57-67		1395549

Prism jaw vertical

Design as movable jaw.
For vertical clamping of round workpieces.
With grip step 5 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGVA-B 125-25-57		1468523

Central grip jaw

Floating version for clamping of two workpieces in one set-up. Both sides are prepared for mounting spring plates or top jaws.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGM-G3 125-16-33		1474207
KS-H-LH 125-360	SGM-G3 125-26-33		1474208

Jaw height extension

Adapter jaw used as jaw height extension of the system jaw to optimize accessibility in the machine.

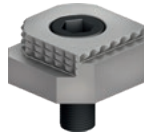


Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGAH-B 125-75-22		1604001

Top jaws

6-way reversible jaws grip

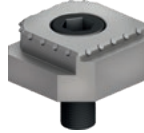
With five grip steps as well as a coated clamping face.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG-6W 38-38-18	38.5	18	38.2	W-38	0430803

6-way reversible jaw carbide grip

With five carbide grip steps as well as a smooth clamping face.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBCG-6W 38-38-18	38.5	18	38.2	W-38	1395550

Jaw profiled

For increasing the friction between jaw and workpiece without clamping impressions.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBD 125-40-11.5	125	40	11.5	W-125-1	1373349

Serrated jaw

For increasing the friction between jaw and workpiece with minimal clamping impressions.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBC 125-40-12.5	125	40	12.5	W-125-1	1373268

Ground jaw

With a completely ground clamping face.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBP 125-40-11.5	125	40	11.5	W-125-1	1373278

Soft jaw

Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBW 125-40-20	125	40	20	W-125-1	1373288

Stepped jaw

With ground step, 8 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS 125-40-11.5-8	125	40	11.5	W-125-1	1373327

Stepped jaw

With ground step, 17 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS 125-40-11.5-17	125	40	11.5	W-125-1	0430413

Stepped jaw

With coated step, 5 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-W 125-40-11.5-5	125	40	11.5	W-125-1	0430414

Stepped jaw

With grip step 3 mm and ground step 18 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G3					
125-40-21.5-18	125	40	21.5	W-125-1	0430415
GBS-G3 125-40-24-18	125	40	24	W-125-1	1322989

Stepped jaw

With special "soft" grip step, 5 mm.
For embossed clamping of soft materials such as plastic or aluminum.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-SG5 125-40-11.5	125	40	11.5	W-125-1	1393552

Stepped jaw

With grip step, 3 mm.
For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G3 125-40-11.5	125	40	11.5	W-125-1	1373331

Stepped jaw

With grip step, 5 mm.
For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G5 125-40-11.5	125	40	11.5	W-125-1	1373334
GBS-G5 65-22-8	65	22	8	W-65-1	1465122

Stepped jaw

With grip step, 8 mm.
For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G8 125-40-11.5	125	40	11.5	W-125-1	1373338

Stepped jaw

With carbide grip step, 3 mm.
For embossed clamping of hardened materials up to 58 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-CG3 125-40-11.5	125	40	11.5	W-125-1	1395524

Stepped jaw

With carbide grip step, 5 mm.
For embossed clamping of hardened materials up to 58 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-CG5 125-40-11.5	125	40	11.5	W-125-1	1424000

Stepped jaw

With special grip step, 3 mm.
For clamping pre-embossed materials and workpieces.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-GL3 125-40-11.5	125	40	11.5	W-125-1	1395577

Stepped jaw with T-slot

With grip step, 3 mm.
T-slot for mounting the positioning strip.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G3-T 125-40-17.5	125	40	17.5	W-125-1	0430248

Stepped jaw with T-slot

With grip step, 5 mm.
T-slot for mounting the positioning strip.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G5-T 125-40-17.5	125	40	17.5	W-125-1	0430247

Stepped jaw with T-slot

With grip step, 8 mm.
T-slot for mounting the positioning strip.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBS-G8-T 125-40-17.5	125	40	17.5	W-125-1	0430237

Positioning bar

To suit all stepped jaws with T-slot.



Description	Width mm	Height mm	Depth mm	Interface	ID
GPL 125-32-13.5	125	32	13.5	W-125-1	0430238

Grip jaw

For embossed clamping of unhardened materials up to 22 HRC.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG 125-40-11.5	125	40	11.5	W-125-1	1373284

Chuck jaw with locating pins

Retractable locating pins for quickly adjusting the jaw to the respective workpiece.



Description	Width mm	Height mm	Depth mm	Interface	ID
GPS 125-40-17	125	40	16.7	W-125-1	1509316

Prism jaw, ground

For precise clamping of round workpieces.
100 = Ø11 - Ø41 mm.
125 = Ø14 - Ø48 mm.
160 = Ø16 - Ø60 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GVA 125-40-17.5	125	40	17.5	W-125-1	1373344

Spring leaf pull-down jaw

For an active jaw pull-down function with a light clamping impression on the workpiece for more precise machining results.



Description	Width mm	Height mm	Depth mm	Interface	ID
GFA 125-40-11.5	125	40	11.5	W-125-1	1373304

Spring plate pull-down jaw

For an active jaw pull-down function without clamping impressions on the workpiece for more precise machining results.



Description	Width mm	Height mm	Depth mm	Interface	ID
GFB 125-39-10	125	39	10	W-125-1	0430192

Precision pull-down jaw

For an active jaw pull-down function without clamping impressions on the workpiece for more precise machining results.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBN-P 125-40-25	125	40	25	W-125-1	0430147

Soft jaw

Blanks for rework by the customer
Height = 22 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBW 65-22-20	65	22	20	W-65-1	0490567

Reversible grip jaw

Reversible jaw with grip step 3 mm in vertical direction and 5 mm in horizontal direction.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG-W 65-22-8	65	22	8	W-65-1	0430729

Prism jaw, ground

For precise clamping of round workpieces.
Height = 22 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GVA 65-22-15	65	22	15	W-65-1	0430707

Universal stepped jaw

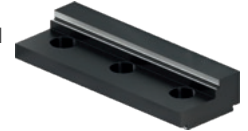
Versatile stepped jaw with ground step.



Description	Width mm	Height mm	Depth mm	Interface	ID
GPE 65-22-8-3	65	22	8	W-65-1	0430704

Smooth jaw VS

Horizontally insertable jaw with enlarged clamping range and ground step.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBE-VS 125-19-45	125	19	45	W-125-3	0430416

Grip jaw VS

Jaw that can be used horizontally with enlarged clamping range and a grip step of 3 mm.



Description	Width mm	Height mm	Depth mm	Interface	ID
GBG-VS 125-17-40	125	17	40	W-125-3	0430417

Adapter jaws

Adapter jaw

Adapter jaw with interface, suitable for the quick-change jaws of the KONTEC KSX-C2 series.

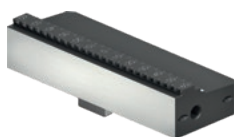


Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGAS-B-1 125-75-28	SW-KSX-C2	1604002

System jaws

Reversible grip jaw

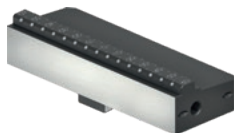
Designed as a quick-change jaw. With grip step 3 mm (up to 22 HRC) and a smooth clamping surface on both sides.



Suitable for	Description	ID
KS-H-LH 125-360	SGWB-G3-B 40-57-27	1494296
KS-H-LH 125-360	SGWB-G3-B 65-57-27	1494297
KS-H-LH 125-360	SGWB-G3-B 80-57-27	1494298
KS-H-LH 125-360	SGWB-G3-B 125-57-27	1494299
KS-H-LH 125-360	SGWB-G5-B 40-57-27	1494303
KS-H-LH 125-360	SGWB-G5-B 65-57-27	1494304
KS-H-LH 125-360	SGWB-G5-B 80-57-27	1494305
KS-H-LH 125-360	SGWB-G5-B 125-57-27	1494306

Reversible carbide-grip jaw

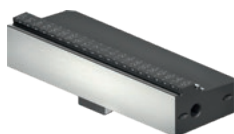
Designed as a quick-change jaw. With carbide-grip step 5 mm (up to 58 HRC) and smooth clamping surface on both sides.



Suitable for	Description	ID
KS-H-LH 125-360	SGWB-CG5-B 40-57-27	1494320
KS-H-LH 125-360	SGWB-CG5-B 65-57-27	1494321
KS-H-LH 125-360	SGWB-CG5-B 80-57-27	1494322
KS-H-LH 125-360	SGWB-CG5-B 125-57-27	1494323

Reversible jaw with embossed profile

Designed as a quick-change jaw. Both sides with embossed profile LANG, step 3 mm and smooth clamping face.



Suitable for	Description	ID
KS-H-LH 125-360	SGWB-GL-B 125-57-27	1494324

Steel jaw

Designed as a quick-change jaw. Hardenable jaws for rework at the customer site, e.g. for incorporating contours or special shapes.



Suitable for	Description	ID
KS-H-LH 125-360	SGS-B 125-57-33	1453106

Swivel plate

Designed as a quick-change jaw. Used – in combination with adapter plates and 6-way reversal jaws – to clamp bulky workpieces.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGP-2 195-105-22	W-38	1453108

Adapter plate

Designed as a quick-change jaw. Used – in combination with swivel plates and 6-way reversal jaws – to clamp bulky workpieces.



Suitable for	Description	Interface	ID
KS-H-LH 125-360	SGA-2 195-72-22	W-38	1453107

Precision jaw set

Designed as a quick-change jaw. Precision jaws that can be finish milled under preliminary clamping, for even greater angularity on the workpiece.



Suitable for	Description	ID
KS-H-LH 125-360	SGWP-B 125-57-27	1494333

Accessories

Clamping force tester

For measuring the jaw clamping force of stationary clamping devices.



Suitable for	Description	ID
KS-H-LH 125-360	IFT SST Set	1475766

Standard clamping pins

Clamping pin for positive connection with NSE3 clamping modules.
With shortened fastening screw.



Suitable for	Description	ID
KS-H-LH 125-360	SPA 40-K	0432369
KS-H-LH 125-360	SPB 40-K	0432370

Clamping pin GFD-SP

Clamping pin for positive connection with GFD set-up stations.



Suitable for	Description	ID
KS-H-LH 125-360	GFD-SP 40	0433600

Hydraulic connection plate

Standard use for controlling the vise from the bottom side.



Suitable for	Description	ID
KS-H-LH 125-360	GHA 97-91-7.5	1595940

Workpiece stop

Workpiece stop with minimum space requirements and continuously adjustable stop slide.
Including stop slider 40 and 80 mm.



Suitable for	Description	ID
KS-H-LH 125-360	GWSA M8-23	1645258

Magnetic workpiece stop, small

For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KS-H-LH 125-360	GWSA-M 60 x 15	1391293

Magnetic workpiece stop, large

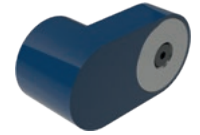
For quick and easy attachment to system jaws or vises.



Suitable for	Description	ID
KS-H-LH 125-360	GWSA-M 115 x 15	1391331

Extensions

As an accessory for the magnetic workpiece stops.



Suitable for	Description	ID
KS-H-LH 125-360	GWSA-V Ø68 x 30	1394477

IO-Link components

Electrical fixed contact interface

4-pin rigid contact with pre-assembled cable and M12 connector as counterpart for the spring contact.



Suitable for	Description	Length m	ID
KS-H-LH 125-360	SFC-4P-M12	0.4	1595941

Electrical fixed contact interface

4-pin rigid contact with pre-assembled cable with open end as counterpart for the spring contact.



Suitable for	Description	Length m	ID
KS-H-LH 125-360	SFC-4P-2M-OE	2	1604180

Workpiece Supports Set

Set of workpiece supports – width 125 mm

Suitable for system jaws H = 33 mm with grip level 3 mm.
Heights = 8, 12, 20, 25, and 27 mm.



Suitable for	Description	ID
KS-H-LH 125-360	GWU-S grip 125-33	1394227

Workpiece supports

Workpiece supports – width 125 mm

In different heights.
1 Set = 2 pieces



Suitable for	Description	Height mm	ID
KS-H-LH 125-360	GWU-M 125-8	8	1450266
KS-H-LH 125-360	GWU-M 125-9	9	1462567
KS-H-LH 125-360	GWU-M 125-10	10	1411328
KS-H-LH 125-360	GWU-M 125-12	12	1447369
KS-H-LH 125-360	GWU-M 125-15	15	1411350
KS-H-LH 125-360	GWU-M 125-20	20	1452308
KS-H-LH 125-360	GWU-M 125-22	22	1457551
KS-H-LH 125-360	GWU-M 125-23	23	1411380
KS-H-LH 125-360	GWU-M 125-25	25	1484475
KS-H-LH 125-360	GWU-M 125-27	27	1461008
KS-H-LH 125-360	GWU-M 125-30	30	1411387
KS-H-LH 125-360	GWU-M 125-31	31	1484477
KS-H-LH 125-360	GWU-M 125-32	32	1411398
KS-H-LH 125-360	GWU-M 125-33	33	1484478
KS-H-LH 125-360	GWU-M 125-34	34	1484480
KS-H-LH 125-360	GWU-M 125-35	35	1411391
KS-H-LH 125-360	GWU-M 125-36	36	1429618
KS-H-LH 125-360	GWU-M 125-37	37	1411395
KS-H-LH 125-360	GWU-M 125-38	38	1429615



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